

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

04 JUN 17 PM 2:00

Sundry Notices and Reports on Wells

070 FARMINGTON, NM

1. Type of Well
GAS

5. Lease Number
NM-02294

6. If Indian, All. or
Tribe Name

2. Name of Operator
SOUTHLAND ROYALTY

7. Unit Agreement Name

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. Well Name & Number
Whitley #8

9. API Well No.
30-045-11733

4. Location of Well, Footage, Sec., T, R, M
990'FSL, 1080'FWL Sec.8, T-27-N, R-9-W, NMPM

10. Field and Pool
Basin Ft Coal

11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☒ Recompletion

☐ New Construction

☐ Final Abandonment

☒ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injectio

☐ Other -

13. Describe Proposed or Completed Operations

It is intended to recomplete this well in the Fruitland Coal per the attached procedure.

RECEIVED
JUN 30 1994

OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] (MP) Title Regulatory Affairs Date 6/15/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

JUNE 1994

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NM000

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

070 FARMINGTON, NM

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-11733	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code	⁵ Property Name Whitley	⁶ Well Number 8
⁷ OGRID No. 21281	⁸ Operator Name SOUTHLAND ROYALTY COMPANY	⁹ Elevation 6362'

¹⁰ Surface Location

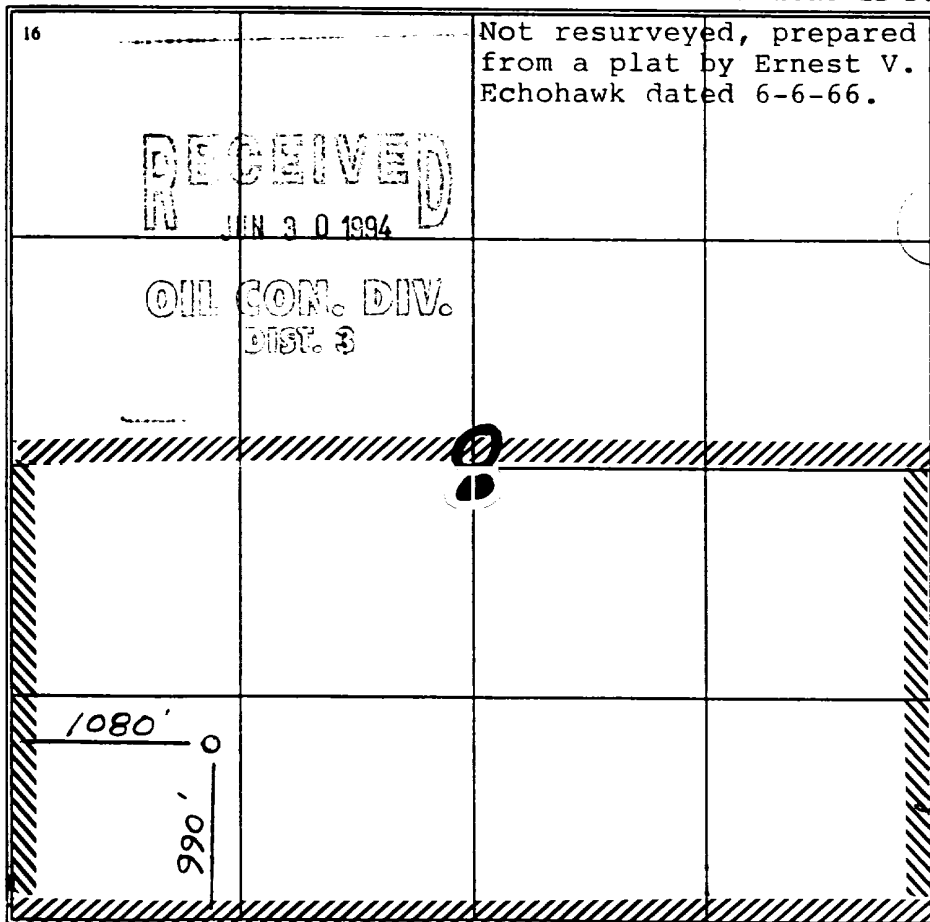
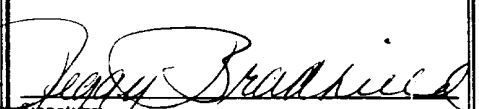
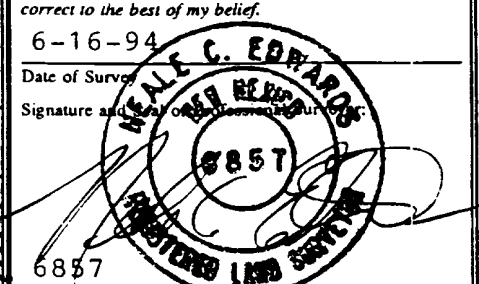
UL or lot no. M	Section 8	Township 27 N	Range 9 W	Lot Idn	Feet from the 990	North/South line South	Feet from the 1080	East/West line West	County S.J.
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Peggy Bradfield Printed Name Regulatory Representative Title 6-15-94 Date
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 6-16-94 Date of Survey Signature and Seal of Surveyor  6857 Certificate Number

Whitley #8 FRTC
FRTC RECOMPLETION
M 8 27 9
San Juan County, N.M.

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP W/offset rams, flow tee and stripping head. NU blooie line and 2-7/8" relief line.
2. TOH w/2346' 1" tbg.
3. MI wireline truck. Run CNL log, which will be used to confirm FRTC perfs, and CBL (2350'-1500'). Coorelate logs to open hole induction log. Set 4-1/2" cmt ret @ 2316'.
4. Load hole & pressure test to 500 psi. TIH w/2-3/8" tbg & sting into cmt ret @ 2316'. Est rate into PC perfs & sq w/100 sx Cl "B" w/2% CaCl. Sting out of cmt ret & reverse out. Roll hole w/1% KCL water. TOH.
5. Spot and fill 2 - 400 bbl. frac tanks with 1% KCL water. Filter all water to 25 microns. On 1st stg, one tank is for gel & one tank for breakdown water. Usable gel water required for frac is 249 bbls.

LOWER FRTC:

6. Perf basal FRTC using w/2 spf @ 2298'-2310'. Total 24 holes. Perforate using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 180 degrees & 2 spf. Avg. perf dia.= 0.48". Average penetration is 18" in Berea.
 7. TIH w/4-1/2" pkr & 2-7/8" NUE N-80 rental tbg w/shaved collars & set @ 2100'. Load backside w/1% KCL water. W/ 500 psi on backside, breakdown & attempt to ball off lower FRTC perforations w/1500 gal. 15% HCL acid & 60-7/8" 1.3 sp gr RCN perf balls. (1gal/1000 corrosion inhibitor). Lower pkr to 2312' to knock off perf balls. Reset pkr @ 2250'.
 8. Pressure backside to 500 psi. Monitor & record backside pressure during frac. Fracture treat lower FRTC down frac string with 33,000 gals. of 70 quality foam using 30# gel as the base fluid & 60,000# 20/40 Arizona sand. Pump at 15 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi and estimated treating pressure is ???? psi. Frac string friction @ 15 BPM is ???? psi. Treat per the following schedule:
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WHITLEY #8 FRTC - FRTC RECOMPLETION

Page 2

Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	8,000	2,400	----
1.0 ppg	5,000	1,500	5,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	5,000	1,500	15,000
4.0 ppg	5,000	1,500	20,000
Flush w/liquid	(0)	(547)	
Totals	33,000	9,900	60,000#

Shut well in after frac for six hours to allow gel to break.

Treat frac fluid with the following additives per 1000 gallons:

- * 30# LGC8 (Gel)
- * 3.0 gal. AQF2 (Non-ionic Surfactant)
- * 1.0# Gvw3 (Enzyme Breaker)
- * 1.0# B-5 (Breaker)

9. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible. TOH w/pkr & frac string.
10. Set 4-1/2" ret BP @ 2270' on wireline & top w/1 sx sand. Pressure test csg to 500 psi for 15 min.
11. Fill 2 - 400 bbl. frac tanks with 1% KCL water. Filter all water to 25 microns. One tank is for gel & one tank for breakdown water. Usable gel water required for frac is 325 bbls.

UPPER FRTC:

12. Upper FRTC perfs will be picked by Prod Engr Dept using CNL log. Perf upper FRTC w/2 spf between 2217'-60'. Total about 50 holes. Perforate using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 180 degrees. Avg. perf dia. = 0.48". Average penetration is 18" in Berea.
13. TIH w/4-1/2" pkr & 2-7/8" NUE N-80 rental tbg w/shaved collars & set @ 1900'. W/ 500 psi on backside, breakdown & attempt to ball off upper FRTC perforations w/2000 gal. 15% HCL acid & 125-7/8" 1.3 sp gr RCN perf balls. (1 gal/1000 corrosion inhibitor). Lower pkr to 2265' to knock off perf balls. Reset pkr @ 2200'.
14. Fracture treat upper FRTC down frac string with 45,000 gals. of 70 quality foam using 30# gel as the base fluid & 80,000# 20/40 Arizona sand. Pump at 35 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi and estimated treating pressure is ??? psi. Treat per the following schedule:

WHITLEY #8 FRTC - FRTC RECOMPLETION
Page 3

<u>Stage</u>	<u>Foam Vol.</u> <u>(Gals.)</u>	<u>Gel Vol.</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(lbs.)</u>
Pad	10,000	3,000	----
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	5,000	1,500	20,000
Flush	(534)	(160)	
Totals	45,000	13,500	80,000#

Shut well in after frac for six hours to allow the gel to break.
Treat frac fluid with the following additives per 1000 gallons:

- * 30# LGC8 (Gel)
- * 3.0 gal. AQF2 (Non-ionic Surfactant)
- * 1.0# GVV3 (Enzyme Breaker)
- * 1.0# B-5 (Breaker)

15. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible. TOH w/pkr & frac string.
16. TIH w/ret head on 2-3/8" tbg & C.O. w/air/mist to ret BP @ 2270'. Take pitot gauges when possible. When well is sufficiently clean, retrieve BP & TOH.
17. TIH w/notched collar on 2-3/8" tbg & C.O. to 2316'. Monitor gas and water returns and take pitot gauges when possible.
18. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2316'-1500'.
19. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom and again cleanout to 2316'. When wellbore is sufficiently clean, land tbg at 2200'KB. Take final water and gas samples & rates.
20. Replace any bad valves on wellhead. ND BOP and NU wellhead & tree. Rig down & release rig.

Approve: _____
J. A. Howieson

VENDORS:

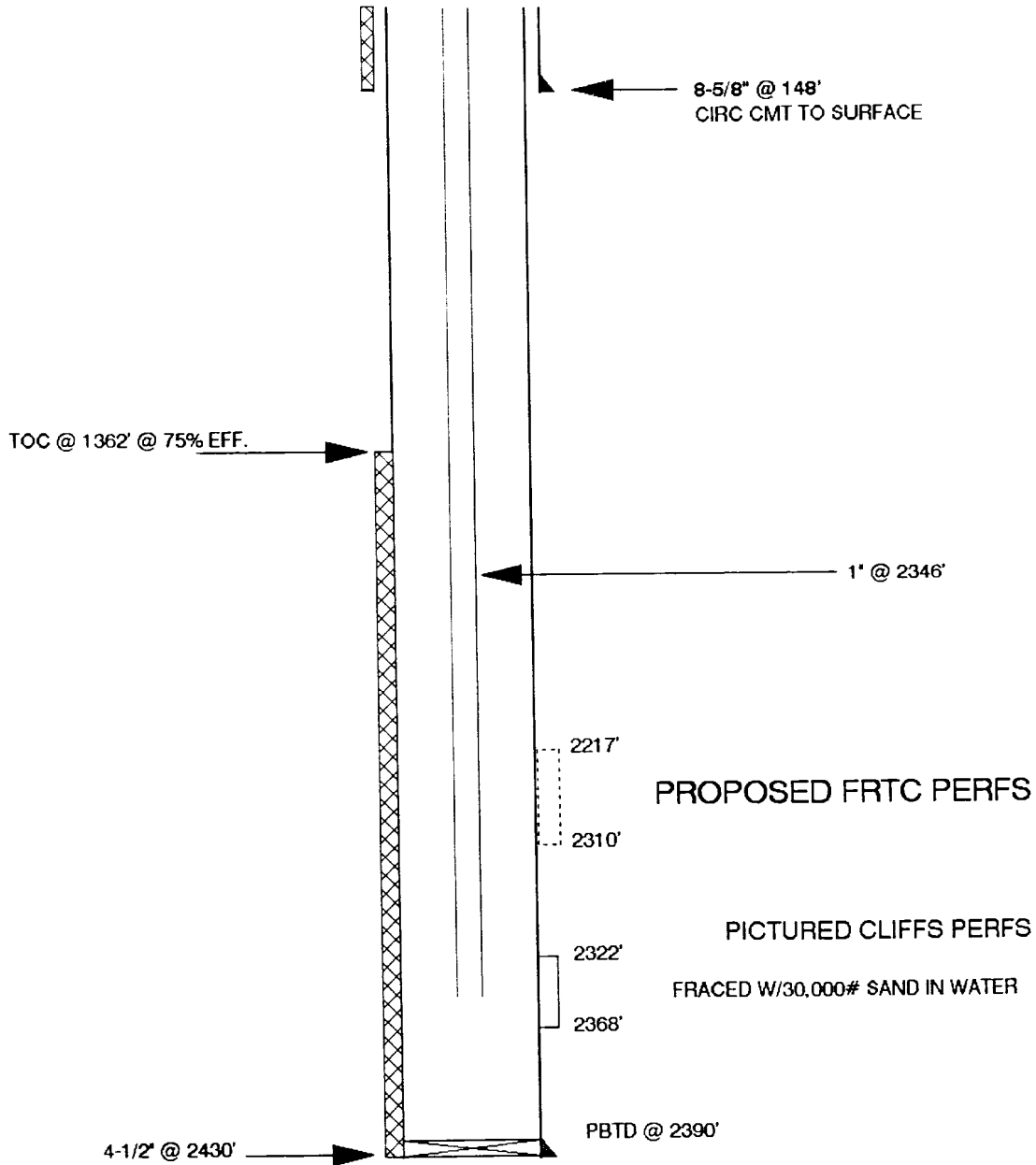
Wireline:	Blue Jet	325-5584
Fracturing:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133

PMP

WHITLEY #8 FRTC

UNIT M SECTION 8 T27N R9W
SAN JUAN COUNTY, NEW MEXICO

PRESENT



Pertinent Data Sheet - WHITLEY #8 PC

Location: 990'FSL 1080' FWL SEC. 8 T27N R09W, SAN JUAN COUNTY, N.M.

Field: South Blanco Pictured Cliffs

Elevation: 6365'

TD: 2430'

11'KB

PBTD: 2390'

Prop#: 0023289

Lease: Federal NM-02294

DP#: 85712

GWI: 25.00%

NRI: 21.09%

Completed: 7-23-66

Initial Potential:

AOF =3528 MCF/D, Q=2718 MCF/D, SICP= 470 PSI

Casing Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cmt</u>
12-1/4"	8-5/8"	24# N/A	148'	120 sx	Circ. Cmt
7-7/8"	4-1/2"	9.5# N/A	2430'	275 sx	1362'@ 75% Eff.

Tubing Record: 1" 1.7# N/A 2346' 111 Jts

Formation Tops:

Ojo Alamo	1371'
Kirtland	1520'
Fruitland	2087'
Pictured Cliffs	2320'

Logging Record: Induction

Stimulation: Perf PC @ 2322'-29', 2336'-38', 2345'-48', 2353'-58', 2365'-68' w/ 2 spf & fraced w/30,000# sand in water.

Workover History: None

Production History: MV 1st delivered on 11-16-66. Cumulative=633 MMCF. Current Capacity= 10 MCF/D. Tbg=??? psi. Csg=??? psi. Bradenhead=? psi. Line=??? psi.

Pipeline: SUG

PMP

WHITLY #8
M 8 27 9

PC
(2MM
800) = D

2200

5

5

2

3

3

3

x

2300

5

25 PF

30 V #

PC
632
MM

